

## **0601 – Health Scientist (Data Scientist)**

### Major Duties for This Position May Include:

- Collaborates with other professionals within and outside the Center in the conduct of surveillance, research, and analytical studies.
- Plans and carries out quality control programs and selects appropriate epidemiologic methods to be used in quality control analysis for key influenza and respiratory pathogens.
- Produces static and interactive data visualizations to communicate findings to internal and external audiences.
- Prepares materials for presentations to other scientific staff and to federal, state, and local health program managers; and other health officials and health-related organizations.

### Related Competencies

- Data Analysis
- Data Security
- Public Health Knowledge
- Data Collection
- Collaboration and Partnering

### Basic Requirements

Bachelor's, graduate, or higher-level degree in major study in an academic field related to the medical field, health sciences or allied sciences appropriate to the work of the position. This degree must be from an educational program from an accrediting body recognized by the U.S. Department of Education ([external link](#)) at the time the degree was obtained.

### Minimum Qualifications

In additions to meeting the basic requirements above, applicants must meet the minimum qualifications requirement as defined below:

### **GS-07 Specialized Experience Requirements**

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-05 grade level in the Federal Service. Specialized experience for this position includes:

- Gathering cost, performance, and/or statistical data to prepare reports; conducts analyses of data to support conclusions or recommendations for action.

### Or Education

One full year of graduate level education.

### Or Superior Academic Achievement

Based on a bachelor's degree that is demonstrated through class standing (upper 1/3 of class); grade point average (3.0/4.0 overall or 3.5/4.0 in major), or election to membership in a qualifying national scholastic honor society.

### Or Combination

You may qualify on a combination of education and experience, the total percentage of experience at the required grade level compared to the specialized experience requirement, as well as the percentage of completed education compared to the educational requirement must equal at least 100 percent.

## GS-09 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-07 grade level in the Federal Service. Specialized experience for this position includes:

- Using current data science methods and tools to plan and conduct research using public health data systems
- Assist in preparing reports that include discussion of substantive issues related to science methodology for public health surveillance

### Or Education

2 years of progressively higher-level graduate education leading to a master's degree *or* master's or equivalent graduate degree if related. **TRANSCRIPTS REQUIRED.**

### Or Combination

You may qualify on a combination of education and experience. The total percentage of experience at the required grade level compared to the requirement, must equal at least 100 percent. Only graduate level education more than the first 18 semester hours (27 quarter hours) may be combined to be considered for qualifying education. **TRANSCRIPTS REQUIRED.**

## GS-11 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-09 grade level in the Federal Service. Specialized experience for this position includes:

- Using current data science methods and tools to plan and conduct research using public health data systems
- Preparing reports that include discussion of substantive issues related to science methodology for public health surveillance
- Analyzes study or project implementation procedures for improvement

### Or Education

Ph.D. or equivalent doctoral degree **or** three (3) full years of progressively higher-level graduate education. **TRANSCRIPTS REQUIRED.**

### Or Combination

You may qualify on a combination of education and experience. The total percentage of experience at the required grade level compared to the requirement, must equal at least 100 percent. Only graduate level education more than the first 36 semester hours (54 quarter hours) may be combined to be considered for qualifying education. **TRANSCRIPTS REQUIRED.**

## GS-12 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-11 grade level in the Federal Service. Specialized experience for this position includes:

- Collecting, linking, processing, coding, classifying, and analyzing public health surveillance, research, and administrative health data.

**Note:** There is no substitution of education for specialized experience at the GS-12 level.

## GS-13 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-12 grade level in the Federal Service. Specialized experience for this position includes:

- Conducting statistical analyses, using data science methods such as machine learning and data visualizations, and working with structured and unstructured datasets.

**Note:** There is no substitution of education for specialized experience at the GS-13 level.

## GS-14 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-13 grade level in the Federal Service. Specialized experience for this position includes:

- Developing and conducting public health surveillance design, data linkage, data validation and analysis processes
- Using data science methods such as machine learning and data visualizations and working with structured and unstructured datasets

**Note:** There is no substitution of education for specialized experience at the GS-14 level.

## GS-15 Specialized Experience Requirements

You must have one year of specialized experience at a level of difficulty and responsibility equivalent to the GS-14 grade level in the Federal Service. Specialized experience for this position includes:

- Managing, planning, developing, coordinating, and evaluating public health surveillance programs and activities related to notifiable conditions and syndromic surveillance, data science and analytical activities.

**Note:** There is no substitution of education for specialized experience at the GS-15 level.

**Experience** refers to paid and unpaid experience. Examples of qualifying unpaid experience may include volunteer work done through National Service programs (such as Peace Corps and AmeriCorps), as well as work for other community-based philanthropic and social organizations. Volunteer work helps build critical competencies, knowledge, and skills; and can provide valuable training and experience that translates directly to paid employment. You will receive credit for all qualifying experience, including volunteer experience.